

**REVOCATION OF POWER OF  
ATTORNEY WITH  
NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	10/526,190
Filing Date	June 15, 2006
First Named Inventor	SWANSON, <i>et al.</i>
Art Unit	2615
Examiner Name	Tran, Sinh N.
Attorney Docket Number	22409-00159-US

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number: 30,678

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with  
Customer Number:

30,678

OR

☐ Firm or  
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Name Jayne Andrews, Patent Attorney/IP Manager of Cochlear Limited

Signature

Date

20 November 2007

Telephone

011-61-2-9428-6555

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ \*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: SWANSON, et al.

Application No./Patent No.: 10/526,190 Filed/Issue Date: June 15, 2006

Entitled: METHOD AND APPARATUS FOR ENVELOPE DETECTION AND ENHANCEMENT OF PITCH CUE OF AUDIO SIGNALS

Cochlear Limited, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. [ ] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

[ ] Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

20 NOVEMBER 2007

Date

011-61-2-9428-6555

Telephone number

Jayne Andrews

Typed or printed name

Jayne Andrews

Signature

Patent Attorney/IP Manager of Cochlear Limited

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

### ASSIGNMENT

WHEREAS, **BRETT ANTHONY SWANSON**, whose post office address appears below (hereinafter referred to as **ASSIGNOR**), has invented certain new and useful improvements in a **METHOD AND APPARATUS FOR ENVELOPE DETECTION AND ENHANCEMENT OF PITCH CUE OF AUDIO SIGNALS**(hereinafter referred to as **THE INVENTION**) for which an application for United States Letters Patent was filed March 2, 2005, and given Serial Number 10/526,190;

WHEREAS, **COCHLEAR LIMITED**, whose post office address is **P. O. Box 629, Lane Cove, NSW 2066, Australia**, (hereinafter referred to as **ASSIGNEE**), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, **ASSIGNOR**, by these presents does sell, assign and transfer unto said **ASSIGNEE**, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded **ASSIGNOR** under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ALSO, **ASSIGNOR** hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of **ASSIGNEE** in and to said invention, all without further consideration. **ASSIGNOR** also agrees, without further consideration and at **ASSIGNEE'S** expense, to identify and communicate to **ASSIGNEE** at **ASSIGNEE'S** request documents and information concerning the invention that are within **ASSIGNOR'S** possession or control, and to provide further assurances and testimony on behalf of **ASSIGNEE** that lawfully may be required of **ASSIGNOR** in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

**ASSIGNOR** also agrees, without further consideration and at **ASSIGNEE'S** expense, to transfer the right to sue for past infringement to **ASSIGNEE** and at **ASSIGNEE'S** request documents and information concerning the enforcement of the right to sue within **ASSIGNOR'S** possession or control, and to provide further assurances and testimony on behalf of **ASSIGNEE** that lawfully may be required of **ASSIGNOR** in respect of the right to sue of any patent encompassed within the terms of this instrument.

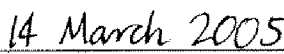
**ASSIGNOR'S** obligations under this instrument shall extend to **ASSIGNOR'S** heirs, executors, administrators and other legal representatives.

**ASSIGNOR'S** hereby grants the firm of Jagtiani + Guttig of Fairfax, VA (Registration No. 35,205) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

**ASSIGNOR** hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to **ASSIGNEE** of the entire right, title and interest in and to the same, for **ASSIGNEE'S** sole use and behalf; and for the use and behalf of **ASSIGNEE'S** legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by **ASSIGNOR** had this assignment and sale not been made.

Brett Anthony Swanson  
21 Lowry Crescent  
St Ives, New South Wales  
Australia 2075

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date

\_\_\_\_\_  
SSN

*(Notarization preferred but not required)*

Before me personally appeared said \_\_\_\_\_ and acknowledges this instrument to be his (her) free act  
and deed this \_\_\_\_\_ day of \_\_\_\_\_.

Notary Public

### ASSIGNMENT

WHEREAS, **HUGH McDERMOTT**, whose post office address appears below (hereinafter referred to as ASSIGNOR), has invented certain new and useful improvements in a **METHOD AND APPARATUS FOR ENVELOPE DETECTION AND ENHANCEMENT OF PITCH CUE OF AUDIO SIGNALS** (hereinafter referred to as **THE INVENTION**) for which an application for United States Letters Patent was filed March 2, 2003, and given Serial Number 10/526,190;

WHEREAS, **COCHLEAR LIMITED**, whose post office address is **P. O. Box 629, Lane Cove, NSW 2066, Australia**, (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to transfer the right to sue for past infringement to ASSIGNEE and at ASSIGNEE's request documents and information concerning the enforcement of the right to sue within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the right to sue of any patent encompassed within the terms of this instrument.

ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ASSIGNOR hereby grants the firm of Jagtiani + Guttig of Fairfax, VA (Registration No. 35,205) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behalf; and for the use and behalf of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

43  
H.M.D.  
Hugh McDermott  
24 Glen Echo Court  
Mt. Macedon, Victoria  
Australia 3441

  
\_\_\_\_\_  
Signature

24-3-05  
\_\_\_\_\_  
Date

\_\_\_\_\_  
SSN

(Notarization preferred but not required)

Before me personally appeared said \_\_\_\_\_ and acknowledges this instrument to be his (her) free act  
and deed this \_\_\_\_\_ day of \_\_\_\_\_.

Notary Public

### ASSIGNMENT

WHEREAS, **JAMES F. PATRICK**, whose post office address appears below (hereinafter referred to as ASSIGNOR), has invented certain new and useful improvements in a **METHOD AND APPARATUS FOR ENVELOPE DETECTION AND ENHANCEMENT OF PITCH CUE OF AUDIO SIGNALS** (hereinafter referred to as **THE INVENTION**) for which an application for United States Letters Patent was filed March 2, 2005, and given Serial Number 10/526,190;

WHEREAS, **COCHLEAR LIMITED**, whose post office address is **P. O. Box 629, Lane Cove, NSW 2066, Australia**, (hereinafter referred to as **ASSIGNEE**), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

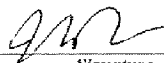
ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to transfer the right to sue for past infringement to ASSIGNEE and at ASSIGNEE's request documents and information concerning the enforcement of the right to sue within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the right to sue of any patent encompassed within the terms of this instrument.

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**James F. Patrick**  
79 Boundary Street  
Roseville, New South Wales  
Australia 2069

  
\_\_\_\_\_  
Signature

11/3/05  
\_\_\_\_\_  
Date

\_\_\_\_\_  
SSN

*(Notarization preferred but not required)*

Before me personally appeared said \_\_\_\_\_ and acknowledges this instrument to be his (her) free act and deed this \_\_\_\_\_ day of \_\_\_\_\_

Notary Public

### ASSIGNMENT

WHEREAS, **PETER JOHN BLAMEY**, whose post office address appears below (hereinafter referred to as ASSIGNOR), has invented certain new and useful improvements in a **METHOD AND APPARATUS FOR ENVELOPE DETECTION AND ENHANCEMENT OF PITCH CUE OF AUDIO SIGNALS** (hereinafter referred to as THE INVENTION) for which an application for United States Letters Patent was filed March 2, 2005, and given Serial Number 10/526,190;

WHEREAS, **COCHLEAR LIMITED**, whose post office address is **P. O. Box 629, Lane Cove, NSW 2066, Australia**, (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

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**Peter John Blamey**  
5/12 Kensington Road  
South Yarra, Victoria  
Australia 3141

  
\_\_\_\_\_  
Signature  
18<sup>th</sup> March 2005  
\_\_\_\_\_  
Date

\_\_\_\_\_  
SSN

(Notarization preferred but not required)

Before me personally appeared said \_\_\_\_\_ and acknowledges this instrument to be his (her) free act and deed this \_\_\_\_\_ day of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public